

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

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Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-117013-8

Client Project/Site: Gold King Mine - Region 8

Revision: 1

For:

Weston Solutions, Inc.

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Suite 100

Lakewood, Colorado 80215

Attn: Moira Pryhoda



Authorized for release by:

10/28/2015 12:08:19 PM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

| Method | Method Description | Protocol | Laboratory |
|--------|---------------------------------------|----------|------------|
| 903.0 | Radium-226 (GFPC) | EPA | TAL SL |
| 904.0 | Radium-228 (GFPC) | EPA | TAL SL |
| A-01-R | Isotopic Thorium (Alpha Spectrometry) | DOE | TAL SL |
| A-01-R | Isotopic Uranium (Alpha Spectrometry) | DOE | TAL SL |

Protocol References:

DOE = U.S. Department of Energy

EPA = US Environmental Protection Agency

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|---|
| U | Result is less than the sample detection limit. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

TestAmerica Savannah

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 680-117013-1 | CC06_092115_1300 | Solid | 09/21/15 13:00 | 09/23/15 00:00 |
| 680-117013-3 | CC06_092115_1300 | Water | 09/21/15 13:00 | 09/23/15 00:00 |

TestAmerica Savannah

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Job ID: 680-117013-8

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Weston Solutions, Inc.

Project: Gold King Mine - Region 8

Report Number: 680-117013-8

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 09/23/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6° C and 2.4° C.

TOTAL ALPHA RADIUM

Sample CC06_092115_1300 (680-117013-1) was analyzed for Total Alpha Radium in accordance with EPA Method 903.0. The samples were prepared on 09/28/2015 and analyzed on 10/21/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226

Sample CC06_092115_1300 (680-117013-3) was analyzed for Radium-226 in accordance with EPA Method 903.0. The samples were prepared on 09/24/2015 and analyzed on 10/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-228 (GFPC)

Sample CC06_092115_1300 (680-117013-1) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 09/28/2015 and analyzed on 10/13/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-228 (GFPC)

Sample CC06_092115_1300 (680-117013-3) was analyzed for Radium-228 (GFPC) in accordance with EPA Method 904.0. The samples were prepared on 09/24/2015 and analyzed on 10/13/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC THORIUM

Sample CC06_092115_1300 (680-117013-1) was analyzed for Isotopic Thorium in accordance with A01R_Th. The samples were prepared on 10/07/2015 and analyzed on 10/13/2015.

Thorium-228 and Thorium-230 were detected in method blank MB 160-215166/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

TestAmerica Savannah

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Job ID: 680-117013-8 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

THORIUM

Sample CC06_092115_1300 (680-117013-3) was analyzed for Thorium in accordance with A01R_Th. The samples were prepared on 09/29/2015 and analyzed on 10/06/2015.

Thorium-230 was detected in method blank MB 160-213545/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ISOTOPIC URANIUM

Sample CC06_092115_1300 (680-117013-1) was analyzed for Isotopic Uranium in accordance with A01R_U. The samples were prepared on 10/07/2015 and analyzed on 10/13/2015.

Uranium-233/234 was detected in method blank MB 160-215168/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

URANIUM

Sample CC06_092115_1300 (680-117013-3) was analyzed for Uranium in accordance with A01R_U. The samples were prepared on 09/29/2015 and analyzed on 10/06/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Client Sample ID: CC06_092115_1300

Lab Sample ID: 680-117013-1

Date Collected: 09/21/15 13:00

Matrix: Solid

Date Received: 09/23/15 00:00

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0339 | U | 0.0412 | 0.0413 | 1.00 | 0.0678 | pCi/g | 09/28/15 18:01 | 10/21/15 07:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 100 | | 40 - 110 | | | | | 09/28/15 18:01 | 10/21/15 07:49 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.184 | U | 0.270 | 0.270 | 1.00 | 0.451 | pCi/g | 09/28/15 18:09 | 10/13/15 11:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 100 | | 40 - 110 | | | | | 09/28/15 18:09 | 10/13/15 11:35 | 1 |
| Y Carrier | 87.9 | | 40 - 110 | | | | | 09/28/15 18:09 | 10/13/15 11:35 | 1 |

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Thorium-228 | 0.0780 | | 0.0547 | 0.0551 | 1.00 | 0.0700 | pCi/g | 10/07/15 14:58 | 10/13/15 15:41 | 1 |
| Thorium-230 | 0.423 | | 0.106 | 0.112 | 1.00 | 0.0323 | pCi/g | 10/07/15 14:58 | 10/13/15 15:41 | 1 |
| Thorium-232 | 0.0931 | | 0.0514 | 0.0520 | 1.00 | 0.0426 | pCi/g | 10/07/15 14:58 | 10/13/15 15:41 | 1 |
| Tracer | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Thorium-229 | 107 | | 30 - 110 | | | | | 10/07/15 14:58 | 10/13/15 15:41 | 1 |

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-----------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Uranium-233/234 | 0.0780 | | 0.0602 | 0.0605 | 1.00 | 0.0674 | pCi/g | 10/07/15 14:58 | 10/13/15 15:43 | 1 |
| Uranium-235/236 | 0.0247 | U | 0.0349 | 0.0349 | 1.00 | 0.0370 | pCi/g | 10/07/15 14:58 | 10/13/15 15:43 | 1 |
| Uranium-238 | 0.0340 | U | 0.0401 | 0.0402 | 1.00 | 0.0563 | pCi/g | 10/07/15 14:58 | 10/13/15 15:43 | 1 |
| Tracer | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Uranium-232 | 96.7 | | 30 - 110 | | | | | 10/07/15 14:58 | 10/13/15 15:43 | 1 |

Client Sample ID: CC06_092115_1300

Lab Sample ID: 680-117013-3

Date Collected: 09/21/15 13:00

Matrix: Water

Date Received: 09/23/15 00:00

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.534 | | 0.131 | 0.139 | 1.00 | 0.107 | pCi/L | 09/24/15 15:24 | 10/16/15 06:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.3 | | 40 - 110 | | | | | 09/24/15 15:24 | 10/16/15 06:36 | 1 |

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Client Sample ID: CC06_092115_1300

Lab Sample ID: 680-117013-3

Date Collected: 09/21/15 13:00

Matrix: Water

Date Received: 09/23/15 00:00

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.335 | U | 0.301 | 0.303 | 1.00 | 0.487 | pCi/L | 09/24/15 15:44 | 10/13/15 11:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.3 | | 40 - 110 | | | | | 09/24/15 15:44 | 10/13/15 11:33 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 09/24/15 15:44 | 10/13/15 11:33 | 1 |

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Thorium-228 | 0.647 | | 0.271 | 0.277 | 1.00 | 0.157 | pCi/L | 09/29/15 10:27 | 10/06/15 18:57 | 1 |
| Thorium-230 | 0.855 | | 0.319 | 0.327 | 1.00 | 0.225 | pCi/L | 09/29/15 10:27 | 10/06/15 18:57 | 1 |
| Thorium-232 | 0.333 | | 0.208 | 0.210 | 1.00 | 0.218 | pCi/L | 09/29/15 10:27 | 10/06/15 18:57 | 1 |
| Tracer | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Thorium-229 | 74.3 | | 30 - 110 | | | | | 09/29/15 10:27 | 10/06/15 18:57 | 1 |

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Uranium-233/234 | 2.96 | | 0.494 | 0.553 | 1.00 | 0.225 | pCi/L | 09/29/15 10:27 | 10/06/15 11:22 | 1 |
| Uranium-235/236 | 0.138 | | 0.121 | 0.122 | 1.00 | 0.128 | pCi/L | 09/29/15 10:27 | 10/06/15 11:22 | 1 |
| Uranium-238 | 2.74 | | 0.469 | 0.522 | 1.00 | 0.165 | pCi/L | 09/29/15 10:27 | 10/06/15 11:22 | 1 |
| Tracer | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Uranium-232 | 95.5 | | 30 - 110 | | | | | 09/29/15 10:27 | 10/06/15 11:22 | 1 |

TestAmerica Savannah

Tracer/Carrier Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: 903.0 - Radium-226 (GFPC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | | | | | | |
|------------------------------|--------------------|-----------------------------------|--|--|--|--|--|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | | | | | | |
| 680-117013-1 | CC06_092115_1300 | 100 | | | | | | |
| 680-117013-1 MS | CC06_092115_1300 | 99.7 | | | | | | |
| 680-117013-1 MSD | CC06_092115_1300 | 74.6 | | | | | | |
| LCS 160-213470/2-A | Lab Control Sample | 75.2 | | | | | | |
| MB 160-213470/1-A | Method Blank | 97.6 | | | | | | |
| Tracer/Carrier Legend | | | | | | | | |
| Ba = Ba Carrier | | | | | | | | |

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | | | | | | |
|------------------------------|--------------------|-----------------------------------|--|--|--|--|--|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | | | | | | |
| 680-117013-3 | CC06_092115_1300 | 95.3 | | | | | | |
| 680-117013-3 MS | CC06_092115_1300 | 95.9 | | | | | | |
| 680-117013-3 MSD | CC06_092115_1300 | 95.6 | | | | | | |
| LCS 160-212941/2-A | Lab Control Sample | 105 | | | | | | |
| MB 160-212941/1-A | Method Blank | 104 | | | | | | |
| Tracer/Carrier Legend | | | | | | | | |
| Ba = Ba Carrier | | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | | | | | | |
|------------------------------|--------------------|-----------------------------------|---------------|--|--|--|--|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) | | | | | |
| 680-117013-1 | CC06_092115_1300 | 100 | 87.9 | | | | | |
| 680-117013-1 MS | CC06_092115_1300 | 99.7 | 86.4 | | | | | |
| 680-117013-1 MSD | CC06_092115_1300 | 74.6 | 86.7 | | | | | |
| LCS 160-213471/2-A | Lab Control Sample | 75.2 | 85.6 | | | | | |
| MB 160-213471/1-A | Method Blank | 97.6 | 86.4 | | | | | |
| Tracer/Carrier Legend | | | | | | | | |
| Ba = Ba Carrier | | | | | | | | |
| Y = Y Carrier | | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | | | | | | |
|--------------------|--------------------|-----------------------------------|---------------|--|--|--|--|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) | | | | | |
| 680-117013-3 | CC06_092115_1300 | 95.3 | 85.6 | | | | | |
| 680-117013-3 MS | CC06_092115_1300 | 95.9 | 86.0 | | | | | |
| 680-117013-3 MSD | CC06_092115_1300 | 95.6 | 86.0 | | | | | |
| LCS 160-212943/2-A | Lab Control Sample | 105 | 87.9 | | | | | |

TestAmerica Savannah

Tracer/Carrier Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|------------------|-----------------------------------|---------------|
| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) |
| MB 160-212943/1-A | Method Blank | 104 | 90.5 |
| Tracer/Carrier Legend | | | |
| Ba = Ba Carrier | | | |
| Y = Y Carrier | | | |

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Th-229 (30-110) | |
| 680-117013-1 | CC06_092115_1300 | 107 | |
| 680-117013-1 MS | CC06_092115_1300 | 93.7 | |
| 680-117013-1 MSD | CC06_092115_1300 | 93.6 | |
| LCS 160-215166/2-A | Lab Control Sample | 94.1 | |
| MB 160-215166/1-A | Method Blank | 89.8 | |
| Tracer/Carrier Legend | | | |
| Th-229 = Thorium-229 | | | |

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Th-229 (30-110) | |
| 680-117013-3 | CC06_092115_1300 | 74.3 | |
| 680-117013-3 MS | CC06_092115_1300 | 51.3 | |
| 680-117013-3 MSD | CC06_092115_1300 | 61.1 | |
| LCS 160-213545/2-A | Lab Control Sample | 91.4 | |
| MB 160-213545/1-A | Method Blank | 91.5 | |
| Tracer/Carrier Legend | | | |
| Th-229 = Thorium-229 | | | |

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|--------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | U-232 (30-110) | |
| 680-117013-1 | CC06_092115_1300 | 96.7 | |
| 680-117013-1 MS | CC06_092115_1300 | 80.3 | |
| 680-117013-1 MSD | CC06_092115_1300 | 89.3 | |
| LCS 160-215168/2-A | Lab Control Sample | 78.1 | |
| MB 160-215168/1-A | Method Blank | 98.4 | |
| Tracer/Carrier Legend | | | |
| U-232 = Uranium-232 | | | |

TestAmerica Savannah

Tracer/Carrier Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)
Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | | | | | |
|-----------------------|--------------------|-----------------------------------|--|--|--|--|--|
| Lab Sample ID | Client Sample ID | U-232 (30-110) | | | | | |
| 680-117013-3 | CC06_092115_1300 | 95.5 | | | | | |
| 680-117013-3 MS | CC06_092115_1300 | 78.2 | | | | | |
| 680-117013-3 MSD | CC06_092115_1300 | 77.8 | | | | | |
| LCS 160-213547/2-A | Lab Control Sample | 85.8 | | | | | |
| MB 160-213547/1-A | Method Blank | 99.4 | | | | | |
| Tracer/Carrier Legend | | | | | | | |
| U-232 = Uranium-232 | | | | | | | |

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-212941/1-A

Matrix: Water

Analysis Batch: 216761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 212941

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.007387 | U | 0.0724 | 0.0724 | 1.00 | 0.135 | pCi/L | 09/24/15 15:24 | 10/16/15 06:36 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 104 | | 40 - 110 | | | | | 09/24/15 15:24 | 10/16/15 06:36 | 1 |

Lab Sample ID: LCS 160-212941/2-A

Matrix: Water

Analysis Batch: 216761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 212941

| Analyte | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|------------|---------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | | 11.2 | 11.83 | | 1.19 | 1.00 | 0.143 | pCi/L | 106 | 68 - 137 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | | |
| Ba Carrier | 105 | | 40 - 110 | | | | | | | |

Lab Sample ID: 680-117013-3 MS

Matrix: Water

Analysis Batch: 216761

Client Sample ID: CC06_092115_1300

Prep Type: Total/NA

Prep Batch: 212941

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|---------------|--------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | 0.534 | | 11.3 | 12.50 | | 1.26 | 1.00 | 0.155 | pCi/L | 106 | 75 - 138 |
| Carrier | MS %Yield | MS Qualifier | Limits | | | | | | | | |
| Ba Carrier | 95.9 | | 40 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-3 MSD

Matrix: Water

Analysis Batch: 216761

Client Sample ID: CC06_092115_1300

Prep Type: Total/NA

Prep Batch: 212941

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|---------------|---------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|-----|-----------|
| Radium-226 | 0.534 | | 11.6 | 12.74 | | 1.29 | 1.00 | 0.167 | pCi/L | 105 | 75 - 138 | 0.1 | 1 |
| Carrier | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | |
| Ba Carrier | 95.6 | | 40 - 110 | | | | | | | | | | |

Lab Sample ID: MB 160-213470/1-A

Matrix: Solid

Analysis Batch: 217507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 213470

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.03928 | U | 0.0557 | 0.0558 | 1.00 | 0.0939 | pCi/g | 09/28/15 18:01 | 10/21/15 07:49 | 1 |

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-213470/1-A
Matrix: Solid
Analysis Batch: 217507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213470

| | MB | MB | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 97.6 | | 40 - 110 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 09/28/15 18:01 | 10/21/15 07:49 | 1 |

Lab Sample ID: LCS 160-213470/2-A
Matrix: Solid
Analysis Batch: 217507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213470

| Analyte | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|--------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | | 11.2 | 8.499 | | 0.873 | 1.00 | 0.120 | pCi/g | 76 | 65 - 140 |
| | LCS | LCS | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | |
| Ba Carrier | 75.2 | | 40 - 110 | | | | | | | |

Lab Sample ID: 680-117013-1 MS
Matrix: Solid
Analysis Batch: 217507

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213470

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|---------------|-------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | 0.0339 | U | 11.1 | 11.57 | | 1.13 | 1.00 | 0.103 | pCi/g | 104 | 72 - 140 |
| | MS | MS | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | |
| Ba Carrier | 99.7 | | 40 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-1 MSD
Matrix: Solid
Analysis Batch: 217507

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213470

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|---------------|-------------|-------------|------------|----------|-----------------------|------|--------|-------|------|--------------|------|-----------|
| Radium-226 | 0.0339 | U | 11.3 | 10.48 | | 1.07 | 1.00 | 0.0871 | pCi/g | 93 | 72 - 140 | 0.50 | 1 |
| | MSD | MSD | | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | | | |
| Ba Carrier | 74.6 | | 40 - 110 | | | | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-212943/1-A
Matrix: Water
Analysis Batch: 216169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212943

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.04907 | U | 0.203 | 0.203 | 1.00 | 0.368 | pCi/L | 09/24/15 15:44 | 10/13/15 11:33 | 1 |

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-212943/1-A
Matrix: Water
Analysis Batch: 216169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212943

| | MB | MB | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 104 | | 40 - 110 |
| Y Carrier | 90.5 | | 40 - 110 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 09/24/15 15:44 | 10/13/15 11:33 | 1 |
| 09/24/15 15:44 | 10/13/15 11:33 | 1 |

Lab Sample ID: LCS 160-212943/2-A
Matrix: Water
Analysis Batch: 216169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212943

| Analyte | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|------------|---------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | | 3.26 | 2.546 | | 0.435 | 1.00 | 0.365 | pCi/L | 78 | 56 - 140 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | | |
| Ba Carrier | 105 | | 40 - 110 | | | | | | | |
| Y Carrier | 87.9 | | 40 - 110 | | | | | | | |

Lab Sample ID: 680-117013-3 MS
Matrix: Water
Analysis Batch: 216169

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 212943

| Analyte | Sample | Sample | Spike | MS | MS | Total | RL | MDC | Unit | %Rec | %Rec. | | |
|------------|--------|-----------|----------|-------|--------|-------|------|-------|-------|------|----------|--|--|
| | Result | Qual | | Added | Result | Qual | | | | | Uncert. | | |
| Radium-228 | 0.335 | U | 3.31 | 4.100 | | 0.610 | 1.00 | 0.425 | pCi/L | 124 | 45 - 150 | | |
| Carrier | MS | MS | | | | | | | | | | | |
| Ba Carrier | %Yield | Qualifier | Limits | | | | | | | | | | |
| Y Carrier | 95.9 | | 40 - 110 | | | | | | | | | | |
| | 86.0 | | 40 - 110 | | | | | | | | | | |

Lab Sample ID: 680-117013-3 MSD
Matrix: Water
Analysis Batch: 216169

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 212943

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|---------------|---------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-228 | 0.335 | U | 3.39 | 3.874 | | 0.585 | 1.00 | 0.391 | pCi/L | 114 | 45 - 150 | 0.19 | 1 |
| Carrier | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | |
| Ba Carrier | 95.6 | | 40 - 110 | | | | | | | | | | |
| Y Carrier | 86.0 | | 40 - 110 | | | | | | | | | | |

Lab Sample ID: MB 160-213471/1-A
Matrix: Solid
Analysis Batch: 216169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213471

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.3609 | U | 0.237 | 0.240 | 1.00 | 0.366 | pCi/g | 09/28/15 18:09 | 10/13/15 11:35 | 1 |

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-213471/1-A
Matrix: Solid
Analysis Batch: 216169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213471

| | MB | MB | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 97.6 | | 40 - 110 |
| Y Carrier | 86.4 | | 40 - 110 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 09/28/15 18:09 | 10/13/15 11:35 | 1 |
| 09/28/15 18:09 | 10/13/15 11:35 | 1 |

Lab Sample ID: LCS 160-213471/2-A
Matrix: Solid
Analysis Batch: 216169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213471

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|------------|---------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | | | 3.26 | 2.837 | | 0.554 | 1.00 | 0.526 | pCi/g | 87 | 61 - 139 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | | | |
| Ba Carrier | 75.2 | | 40 - 110 | | | | | | | | |
| Y Carrier | 85.6 | | 40 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-1 MS
Matrix: Solid
Analysis Batch: 216169

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213471

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|---------------|--------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 0.184 | U | 3.24 | 2.265 | | 0.396 | 1.00 | 0.290 | pCi/g | 70 | 30 - 150 |
| Carrier | MS %Yield | MS Qualifier | Limits | | | | | | | | |
| Ba Carrier | 99.7 | | 40 - 110 | | | | | | | | |
| Y Carrier | 86.4 | | 40 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-1 MSD
Matrix: Solid
Analysis Batch: 216169

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213471

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|---------------|---------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-228 | 0.184 | U | 3.29 | 2.598 | | 0.498 | 1.00 | 0.415 | pCi/g | 79 | 30 - 150 | 0.37 | 1 |
| Carrier | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | |
| Ba Carrier | 74.6 | | 40 - 110 | | | | | | | | | | |
| Y Carrier | 86.7 | | 40 - 110 | | | | | | | | | | |

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry)

Lab Sample ID: MB 160-213545/1-A
Matrix: Water
Analysis Batch: 214796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213545

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Thorium-228 | 0.1303 | U | 0.123 | 0.123 | 1.00 | 0.168 | pCi/L | 09/29/15 10:27 | 10/06/15 18:58 | 1 |
| Thorium-230 | 0.1607 | | 0.130 | 0.131 | 1.00 | 0.157 | pCi/L | 09/29/15 10:27 | 10/06/15 18:58 | 1 |
| Thorium-232 | -0.004691 | U | 0.0657 | 0.0657 | 1.00 | 0.176 | pCi/L | 09/29/15 10:27 | 10/06/15 18:58 | 1 |
| Tracer | MB %Yield | MB Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Thorium-229 | 91.5 | | 30 - 110 | | | | | 09/29/15 10:27 | 10/06/15 18:58 | 1 |

Lab Sample ID: LCS 160-213545/2-A
Matrix: Water
Analysis Batch: 214843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213545

| Analyte | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-------------|------------|---------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Thorium-230 | | 8.03 | 7.868 | | 1.05 | 1.00 | 0.163 | pCi/L | 98 | 81 - 125 |
| Tracer | LCS %Yield | LCS Qualifier | Limits | | | | | | | |
| Thorium-229 | 91.4 | | 30 - 110 | | | | | | | |

Lab Sample ID: 680-117013-3 MS
Matrix: Water
Analysis Batch: 214849

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213545

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-------------|---------------|--------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|--------------|
| Thorium-230 | 0.855 | | 8.02 | 9.133 | | 1.43 | 1.00 | 0.283 | pCi/L | 103 | 82 - 139 |
| Tracer | MS %Yield | MS Qualifier | Limits | | | | | | | | |
| Thorium-229 | 51.3 | | 30 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-3 MSD
Matrix: Water
Analysis Batch: 214865

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213545

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|-------------|---------------|---------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Thorium-230 | 0.855 | | 8.03 | 9.306 | | 1.35 | 1.00 | 0.311 | pCi/L | 105 | 82 - 139 | 0.06 | 1 |
| Tracer | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | |
| Thorium-229 | 61.1 | | 30 - 110 | | | | | | | | | | |

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: A-01-R - Isotopic Thorium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-215166/1-A
Matrix: Solid
Analysis Batch: 216139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215166

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------|-----------|--------------|-----------------------|-----------------------|------|--------|-------|----------------|----------------|---------|
| Thorium-228 | 0.09403 | | 0.0646 | 0.0651 | 1.00 | 0.0812 | pCi/g | 10/07/15 14:58 | 10/13/15 15:41 | 1 |
| Thorium-230 | 0.1176 | | 0.0632 | 0.0640 | 1.00 | 0.0524 | pCi/g | 10/07/15 14:58 | 10/13/15 15:41 | 1 |
| Thorium-232 | 0.0000 | U | 0.00390 | 0.00390 | 1.00 | 0.0234 | pCi/g | 10/07/15 14:58 | 10/13/15 15:41 | 1 |
| Tracer | MB %Yield | MB Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Thorium-229 | 89.8 | | 30 - 110 | | | | | 10/07/15 14:58 | 10/13/15 15:41 | 1 |

Lab Sample ID: LCS 160-215166/2-A
Matrix: Solid
Analysis Batch: 216140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215166

| Analyte | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-------------|------------|---------------|------------|----------|-----------------------|------|--------|-------|------|--------------|
| Thorium-230 | | 24.5 | 24.81 | | 2.43 | 1.00 | 0.0971 | pCi/g | 101 | 81 - 118 |
| Tracer | LCS %Yield | LCS Qualifier | Limits | | | | | | | |
| Thorium-229 | 94.1 | | 30 - 110 | | | | | | | |

Lab Sample ID: 680-117013-1 MS
Matrix: Solid
Analysis Batch: 216142

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 215166

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-------------|---------------|--------------|-------------|-----------|---------|-----------------------|------|--------|-------|------|--------------|
| Thorium-230 | 0.423 | | 4.00 | 4.665 | | 0.547 | 1.00 | 0.0481 | pCi/g | 106 | 76 - 115 |
| Tracer | MS %Yield | MS Qualifier | Limits | | | | | | | | |
| Thorium-229 | 93.7 | | 30 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-1 MSD
Matrix: Solid
Analysis Batch: 216143

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 215166

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|-------------|---------------|---------------|-------------|------------|----------|-----------------------|------|--------|-------|------|--------------|------|-----------|
| Thorium-230 | 0.423 | | 4.01 | 4.949 | | 0.579 | 1.00 | 0.0247 | pCi/g | 113 | 76 - 115 | 0.25 | 1 |
| Tracer | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | |
| Thorium-229 | 93.6 | | 30 - 110 | | | | | | | | | | |

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry)

Lab Sample ID: MB 160-213547/1-A
Matrix: Water
Analysis Batch: 214875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213547

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-----------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Uranium-233/234 | -0.006392 | U | 0.0457 | 0.0457 | 1.00 | 0.145 | pCi/L | 09/29/15 10:27 | 10/06/15 11:22 | 1 |
| Uranium-235/236 | -0.009545 | U | 0.0135 | 0.0135 | 1.00 | 0.132 | pCi/L | 09/29/15 10:27 | 10/06/15 11:22 | 1 |
| Uranium-238 | -0.01148 | U | 0.0133 | 0.0133 | 1.00 | 0.116 | pCi/L | 09/29/15 10:27 | 10/06/15 11:22 | 1 |
| Tracer | MB %Yield | MB Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Uranium-232 | 99.4 | | 30 - 110 | | | | | 09/29/15 10:27 | 10/06/15 11:22 | 1 |

Lab Sample ID: LCS 160-213547/2-A
Matrix: Water
Analysis Batch: 214886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213547

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-----------------|-------------|---------------|----------|-----------------------|------|-------|-------|------|--------------|
| Uranium-233/234 | 12.7 | 13.04 | | 1.53 | 1.00 | 0.188 | pCi/L | 102 | 84 - 120 |
| Uranium-238 | 13.0 | 13.10 | | 1.54 | 1.00 | 0.213 | pCi/L | 101 | 83 - 121 |
| Tracer | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Uranium-232 | 85.8 | | 30 - 110 | | | | | | |

Lab Sample ID: 680-117013-3 MS
Matrix: Water
Analysis Batch: 214797

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213547

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-----------------|---------------|--------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|--------------|
| Uranium-233/234 | 2.96 | | 12.7 | 15.76 | | 1.84 | 1.00 | 0.157 | pCi/L | 101 | 65 - 146 |
| Uranium-238 | 2.74 | | 13.0 | 18.25 | | 2.06 | 1.00 | 0.190 | pCi/L | 119 | 68 - 143 |
| Tracer | MS %Yield | MS Qualifier | Limits | | | | | | | | |
| Uranium-232 | 78.2 | | 30 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-3 MSD
Matrix: Water
Analysis Batch: 214808

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 213547

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|-----------------|---------------|---------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Uranium-233/234 | 2.96 | | 12.7 | 15.82 | | 1.82 | 1.00 | 0.236 | pCi/L | 101 | 65 - 146 | 0.02 | 1 |
| Uranium-238 | 2.74 | | 13.0 | 15.19 | | 1.76 | 1.00 | 0.274 | pCi/L | 96 | 68 - 143 | 0.80 | 1 |
| Tracer | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | |
| Uranium-232 | 77.8 | | 30 - 110 | | | | | | | | | | |

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Method: A-01-R - Isotopic Uranium (Alpha Spectrometry) (Continued)

Lab Sample ID: MB 160-215168/1-A
Matrix: Solid
Analysis Batch: 216134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215168

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-----------------|-----------|--------------|-----------------------|-----------------------|------|--------|-------|----------------|----------------|---------|
| Uranium-233/234 | 0.04890 | | 0.0456 | 0.0458 | 1.00 | 0.0463 | pCi/g | 10/07/15 14:58 | 10/13/15 15:43 | 1 |
| Uranium-235/236 | 0.007903 | U | 0.0262 | 0.0262 | 1.00 | 0.0657 | pCi/g | 10/07/15 14:58 | 10/13/15 15:43 | 1 |
| Uranium-238 | 0.02028 | U | 0.0287 | 0.0287 | 1.00 | 0.0304 | pCi/g | 10/07/15 14:58 | 10/13/15 15:43 | 1 |
| Tracer | MB %Yield | MB Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Uranium-232 | 98.4 | | 30 - 110 | | | | | 10/07/15 14:58 | 10/13/15 15:43 | 1 |

Lab Sample ID: LCS 160-215168/2-A
Matrix: Solid
Analysis Batch: 216135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215168

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-----------------|-------------|---------------|----------|-----------------------|------|--------|-------|------|--------------|
| Uranium-233/234 | 6.37 | 7.204 | | 0.859 | 1.00 | 0.0587 | pCi/g | 113 | 84 - 120 |
| Uranium-238 | 6.51 | 7.190 | | 0.857 | 1.00 | 0.0586 | pCi/g | 110 | 82 - 122 |
| Tracer | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Uranium-232 | 78.1 | | 30 - 110 | | | | | | |

Lab Sample ID: 680-117013-1 MS
Matrix: Solid
Analysis Batch: 216137

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 215168

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|-----------------|---------------|--------------|-------------|-----------|---------|-----------------------|------|--------|-------|------|--------------|
| Uranium-233/234 | 0.0780 | | 6.34 | 6.653 | | 0.797 | 1.00 | 0.0689 | pCi/g | 104 | 70 - 130 |
| Uranium-238 | 0.0340 | U | 6.48 | 6.439 | | 0.777 | 1.00 | 0.0550 | pCi/g | 99 | 70 - 130 |
| Tracer | MS %Yield | MS Qualifier | Limits | | | | | | | | |
| Uranium-232 | 80.3 | | 30 - 110 | | | | | | | | |

Lab Sample ID: 680-117013-1 MSD
Matrix: Solid
Analysis Batch: 216138

Client Sample ID: CC06_092115_1300
Prep Type: Total/NA
Prep Batch: 215168

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|-----------------|---------------|---------------|-------------|------------|----------|-----------------------|------|--------|-------|------|--------------|------|-----------|
| Uranium-233/234 | 0.0780 | | 6.36 | 6.105 | | 0.729 | 1.00 | 0.0572 | pCi/g | 95 | 70 - 130 | 0.36 | 1 |
| Uranium-238 | 0.0340 | U | 6.50 | 6.469 | | 0.761 | 1.00 | 0.0500 | pCi/g | 100 | 70 - 130 | 0.02 | 1 |
| Tracer | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | |
| Uranium-232 | 89.3 | | 30 - 110 | | | | | | | | | | |

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Rad

Prep Batch: 212941

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 680-117013-3 | CC06_092115_1300 | Total/NA | Water | PrecSep-21 | |
| 680-117013-3 MS | CC06_092115_1300 | Total/NA | Water | PrecSep-21 | |
| 680-117013-3 MSD | CC06_092115_1300 | Total/NA | Water | PrecSep-21 | |
| LCS 160-212941/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| MB 160-212941/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |

Prep Batch: 212943

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 680-117013-3 | CC06_092115_1300 | Total/NA | Water | PrecSep_0 | |
| 680-117013-3 MS | CC06_092115_1300 | Total/NA | Water | PrecSep_0 | |
| 680-117013-3 MSD | CC06_092115_1300 | Total/NA | Water | PrecSep_0 | |
| LCS 160-212943/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| MB 160-212943/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |

Prep Batch: 213470

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-117013-1 | CC06_092115_1300 | Total/NA | Solid | DPS-21 | |
| 680-117013-1 MS | CC06_092115_1300 | Total/NA | Solid | DPS-21 | |
| 680-117013-1 MSD | CC06_092115_1300 | Total/NA | Solid | DPS-21 | |
| LCS 160-213470/2-A | Lab Control Sample | Total/NA | Solid | DPS-21 | |
| MB 160-213470/1-A | Method Blank | Total/NA | Solid | DPS-21 | |

Prep Batch: 213471

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 680-117013-1 | CC06_092115_1300 | Total/NA | Solid | DPS-0 | |
| 680-117013-1 MS | CC06_092115_1300 | Total/NA | Solid | DPS-0 | |
| 680-117013-1 MSD | CC06_092115_1300 | Total/NA | Solid | DPS-0 | |
| LCS 160-213471/2-A | Lab Control Sample | Total/NA | Solid | DPS-0 | |
| MB 160-213471/1-A | Method Blank | Total/NA | Solid | DPS-0 | |

Prep Batch: 213545

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 680-117013-3 | CC06_092115_1300 | Total/NA | Water | ExtChrom | |
| 680-117013-3 MS | CC06_092115_1300 | Total/NA | Water | ExtChrom | |
| 680-117013-3 MSD | CC06_092115_1300 | Total/NA | Water | ExtChrom | |
| LCS 160-213545/2-A | Lab Control Sample | Total/NA | Water | ExtChrom | |
| MB 160-213545/1-A | Method Blank | Total/NA | Water | ExtChrom | |

Prep Batch: 213547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 680-117013-3 | CC06_092115_1300 | Total/NA | Water | ExtChrom | |
| 680-117013-3 MS | CC06_092115_1300 | Total/NA | Water | ExtChrom | |
| 680-117013-3 MSD | CC06_092115_1300 | Total/NA | Water | ExtChrom | |
| LCS 160-213547/2-A | Lab Control Sample | Total/NA | Water | ExtChrom | |
| MB 160-213547/1-A | Method Blank | Total/NA | Water | ExtChrom | |

Prep Batch: 215166

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 680-117013-1 | CC06_092115_1300 | Total/NA | Solid | ExtChrom | |
| 680-117013-1 MS | CC06_092115_1300 | Total/NA | Solid | ExtChrom | |
| 680-117013-1 MSD | CC06_092115_1300 | Total/NA | Solid | ExtChrom | |

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Rad (Continued)

Prep Batch: 215166 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| LCS 160-215166/2-A | Lab Control Sample | Total/NA | Solid | ExtChrom | |
| MB 160-215166/1-A | Method Blank | Total/NA | Solid | ExtChrom | |

Prep Batch: 215168

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 680-117013-1 | CC06_092115_1300 | Total/NA | Solid | ExtChrom | |
| 680-117013-1 MS | CC06_092115_1300 | Total/NA | Solid | ExtChrom | |
| 680-117013-1 MSD | CC06_092115_1300 | Total/NA | Solid | ExtChrom | |
| LCS 160-215168/2-A | Lab Control Sample | Total/NA | Solid | ExtChrom | |
| MB 160-215168/1-A | Method Blank | Total/NA | Solid | ExtChrom | |

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Client Sample ID: CC06_092115_1300

Date Collected: 09/21/15 13:00

Date Received: 09/23/15 00:00

Lab Sample ID: 680-117013-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | DPS-21 | | | 0.9950 g | 1.0 g | 213470 | 09/28/15 18:01 | JAC | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 0.9950 g | | 217507 | 10/21/15 07:49 | MFM | TAL SL |
| | | Instrument ID: GFPCORANGE | | | | | | | | |
| Total/NA | Prep | DPS-0 | | | 0.9950 g | 1.0 g | 213471 | 09/28/15 18:09 | JAC | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 0.9950 g | | 216169 | 10/13/15 11:35 | RTM | TAL SL |
| | | Instrument ID: GFPCPURPLE | | | | | | | | |
| Total/NA | Prep | ExtChrom | | | 1.0059 g | 1.0 mL | 215166 | 10/07/15 14:58 | SEK | TAL SL |
| Total/NA | Analysis | A-01-R | | 1 | 1.0059 g | | 216141 | 10/13/15 15:41 | ALD | TAL SL |
| | | Instrument ID: ALPHAVISION | | | | | | | | |
| Total/NA | Prep | ExtChrom | | | 1.0059 g | 1.0 mL | 215168 | 10/07/15 14:58 | SEK | TAL SL |
| Total/NA | Analysis | A-01-R | | 1 | 1.0059 g | | 216136 | 10/13/15 15:43 | ALD | TAL SL |
| | | Instrument ID: ALPHAVISION | | | | | | | | |

Client Sample ID: CC06_092115_1300

Date Collected: 09/21/15 13:00

Date Received: 09/23/15 00:00

Lab Sample ID: 680-117013-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 977.59 mL | 1.0 g | 212941 | 09/24/15 15:24 | JAC | TAL SL |
| Total/NA | Analysis | 903.0 | | 1 | 977.59 mL | | 216761 | 10/16/15 06:36 | MFM | TAL SL |
| | | Instrument ID: GFPCORANGE | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 977.59 mL | 1.0 g | 212943 | 09/24/15 15:44 | JAC | TAL SL |
| Total/NA | Analysis | 904.0 | | 1 | 977.59 mL | | 216169 | 10/13/15 11:33 | RTM | TAL SL |
| | | Instrument ID: GFPCPURPLE | | | | | | | | |
| Total/NA | Prep | ExtChrom | | | 500.35 mL | 1.0 mL | 213547 | 09/29/15 10:27 | SEK | TAL SL |
| Total/NA | Analysis | A-01-R | | 1 | 500.35 mL | | 214897 | 10/06/15 11:22 | RTM | TAL SL |
| | | Instrument ID: ALPHAVISION | | | | | | | | |
| Total/NA | Prep | ExtChrom | | | 500.35 mL | 1.0 mL | 213545 | 09/29/15 10:27 | SEK | TAL SL |
| Total/NA | Analysis | A-01-R | | 1 | 500.35 mL | | 214848 | 10/06/15 18:57 | RTM | TAL SL |
| | | Instrument ID: ALPHAVISION | | | | | | | | |

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

TestAmerica Savannah

Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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THE LEADER IN ENVIRONMENTAL TESTING

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Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-117013-8

Login Number: 117013

List Number: 1

Creator: Daughtry, Beth A

List Source: TestAmerica Savannah

| Question | Answer | Comment |
|--|--------|---|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | False | Did not receive the water portion for this sample |
| Samples are received within Holding Time. | False | Waters: cr-6/NO3 OFH |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A | |
| Multiphasic samples are not present. | N/A | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-117013-8

Login Number: 117013

List Number: 2

Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

List Creation: 09/24/15 01:01 PM

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 1.3 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | False | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-117013-8

Login Number: 117013

List Number: 3

Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

List Creation: 09/24/15 01:06 PM

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.1 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | False | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-8

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------------|------------|------------------|-----------------|
| Colorado | State Program | 8 | N/A | 12-31-15 |

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| Alaska | State Program | 10 | MO00054 | 06-30-16 |
| California | ELAP | 9 | 2886 | 03-31-16 |
| Connecticut | State Program | 1 | PH-0241 | 03-31-17 |
| Florida | NELAP | 4 | E87689 | 06-30-16 |
| Illinois | NELAP | 5 | 200023 | 11-30-15 |
| Iowa | State Program | 7 | 373 | 12-01-16 |
| Kansas | NELAP | 7 | E-10236 | 10-31-15 * |
| Kentucky (DW) | State Program | 4 | 90125 | 12-31-15 |
| L-A-B | DoD ELAP | | L2305 | 01-10-16 |
| Louisiana | NELAP | 6 | 04080 | 06-30-16 |
| Louisiana (DW) | NELAP | 6 | LA150017 | 12-31-16 |
| Maryland | State Program | 3 | 310 | 09-30-16 |
| Missouri | State Program | 7 | 780 | 06-30-15 * |
| Nevada | State Program | 9 | MO000542016-1 | 07-31-16 |
| New Jersey | NELAP | 2 | MO002 | 09-30-15 * |
| New York | NELAP | 2 | 11616 | 03-31-16 |
| North Dakota | State Program | 8 | R207 | 06-30-16 |
| NRC | NRC | | 24-24817-01 | 12-31-22 |
| Oklahoma | State Program | 6 | 9997 | 08-31-16 |
| Pennsylvania | NELAP | 3 | 68-00540 | 02-28-16 |
| South Carolina | State Program | 4 | 85002001 | 06-30-15 * |
| Texas | NELAP | 6 | T104704193-15-9 | 07-31-16 |
| USDA | Federal | | P330-07-00122 | 01-09-17 |
| Utah | NELAP | 8 | MO000542015-7 | 07-31-16 |
| Virginia | NELAP | 3 | 460230 | 06-14-16 |
| Washington | State Program | 10 | C592 | 08-30-16 |
| West Virginia DEP | State Program | 3 | 381 | 08-31-16 |

* Certification renewal pending - certification considered valid.

TestAmerica Savannah